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(fish adj eye\$2 fisheye\$2) and (photosensitive photoharden\$10 photopolym\$10 photocur\$10 photoresist\$5 photo)

226

**Database:** US Patents Full-Text Database

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(photosensitive photoharden\$10  
photopolym\$10 photocur\$10 photoresist\$5)

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CYNTIA HAMILTON  
PRIMARY EXAMINER

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	(fish adj eye\$2 fisheye\$2) and (photosensitive photoharden\$10 photopolym\$10 photocur\$10 photoresist\$5 photo)	226	<u>L6</u>
DWPI	(fish adj eye\$2 fisheye\$2) and (photosensitive photoharden\$10 photopolym\$10 photocur\$10 photoresist\$5 photo)	16	<u>L5</u>
DWPI	1 and (photosensitive photoharden\$10 photopolym\$10 photocur\$10 photoresist\$5 photo)	185818	<u>L4</u>
DWPI	L1 and (photosensitive photoharden\$10 photopolym\$10 photocur\$10 photoresist\$5 photo)	29	<u>L3</u>
DWPI	1 and (photosensitive photoharden\$10 photopolym\$10 photocur\$10 photoresist\$5 photo)	13053	<u>L2</u>
DWPI	fish adj eye\$2 fisheye\$2	1130	<u>L1</u>

## Freeform Search

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**Term:**

L8 and (photosensitive or photohard\$10 photopolym\$10 photocur\$10) and laminat\$10

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## Search History

Today's Date: 12/16/2000

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
DWPI	L8 and (photosensitive or photohard\$10 photopolym\$10 photocur\$10) and laminat\$10	7	<u>L13</u>
DWPI	9 and (photosensitive or photohard\$10 photopolym\$10 photocur\$10) and laminat\$10	512	<u>L12</u>
DWPI	9 and (photosensitive or photohard\$10 photopolym\$10 photocur\$10)	8752	<u>L11</u>
DWPI	('CN 1099334A' 'JP 07286008A')[ABPN1]	0	<u>L10</u>
DWPI	8 and (polypropylene poly adj propylene)	12408	<u>L9</u>
DWPI	gell inclusions	22405	<u>L8</u>
DWPI	de-3825782-\$ did.	1	<u>L7</u>
DWPI	(void microvoid) and laminat\$10 and polypropylene	110	<u>L6</u>
DWPI	(void microvoid) and laminat\$10 and polyethylene.	0	<u>L5</u>
DWPI	jp-01314144-\$ did.	1	<u>L4</u>
DWPI	jp-51063702-\$ did.	1	<u>L3</u>
DWPI	jp-52066581-\$ did.	1	<u>L2</u>
DWPI	jp-03012402-\$ did.	1	<u>L1</u>

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L5: Entry 5 of 16

File: DWPI

Oct 25, 1994

DERWENT-ACC-NO: 1995-011376

DERWENT-WEEK: 199502

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TITLE: Cover film for prodn. of photosensitive process plate - comprises polyester film of specified Young's modulus

## PATENT-ASSIGNEE:

ASSIGNEE	CODE
TORAY IND INC	TORA

## PRIORITY-DATA:

1993JP-0032061	February 22, 1993
----------------	-------------------

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 06297565 A	October 25, 1994	N/A	011	B29C055/12

## APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
JP06297565A	August 19, 1993	1993JP-0205269	N/A

INT-CL (IPC): B29C 55/12; B29K 67/00; B29L 7/00; B32B 27/36; C08J 7/04

ABSTRACTED-PUB-NO: JP06297565A

## BASIC-ABSTRACT:

The cover film comprises a polyester film having a surface wet force fo below 36 dyne/cm. The polyester film has a Young's modulus of 10-25 kg/sq.mm.

The polyester film has a haze above 10%, and an at least 1 micron roughness density PC-1 of 10 and more/mm (JIS -B- 0601-1976). The polyester is (a) a polyester contg. at least 5-50 mol.% of long-chain aliphatic dicarboxylic acid and/or cyclohexane dicarboxylic acid having an at least 10C alkylene gp., (b) a polyester contg. polycaprolactone black copolymerised, (c) a polyester contg. polyethylene glycol black copolymerised and/or (d) a polyester contg. polytetramethylene glycol black copolymerised. The cover film contains a layer contg. 1-50 wt.% of a non-crystalline polyolefin (pref. a norbornene type resin), on one or opposite sides of the polyester film.

USE/ADVANTAGE - The film is useful as a cover film for photoresists, and has superior high flatness with fewer irregularities, gels, and fish eyes. It has good flexibility and release properties. The roughened surface prevents air from being trapped when the film is pressed with rolls for sticking, and also prevents a photoresist from being self-crosslinked, due to the air-circulation properties of the wound roll of film.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: COVER FILM PRODUCE PHOTORESISTISER PROCESS PLATE COMPRISE POLYESTER FILM SPECIFIED YOUNG MODULUS

DERWENT-CLASS: A23 A89 G06 P73

CPI-CODES: A05-E01D3; A12-L02B1; A12-L02F; A12-W07B; A12-W07C; G05-A; G06-A08; G06-D05;

## ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 017 ; G1343\*R G1310 D01 D60 F37 F35 E00 D10\*R ; P0839\*R F41 D01 D63 ;

H0011\*R ; S9999 S1285\*R Polymer Index [1.2] 017 ; R01295 G2131 D01 D23 D22 D31 D42 D50  
D86 F43 ; H0011\*R ; H0044\*R H0011 ; P0839\*R F41 D01 D63 ; S9999 S1285\*R Polymer Index  
[1.3] 017 ; R00351 G1558 D01 D23 D22 D31 D42 D50 D82 F47 ; P0953 P0839 P0964 H0260 F34  
F41 D01 D63 ; H0011\*R ; H0044\*R H0011 ; H0260 ; P0055 ; S9999 S1285\*R Polymer Index [1.4]  
017 ; D84 F34 ; P0953 P0839 P0964 H0260 F34 F41 D01 D63 ; H0011\*R ; H0044\*R H0011 ; H0260  
; S9999 S1285\*R Polymer Index [1.5] 017 ; G1343\*R G1310 D01 D60 F37 F35 E00 D10\*R ; G1365  
G1343 G1310 D01 D60 F37 F35 E00 D11 D10 D14 D13 D31 D93 D94 D95 ; P0839\*R F41 D01 D63 ;  
H0011\*R ; S9999 S1285\*R ; H0293 ; H0033 H0011 Polymer Index [1.6] 017 ; ND01 ; B9999  
B4035 B3930 B3838 B3747 ; B9999 B5323 B5298 B5276 ; B9999 B5389 B5276 ; K9574 K9483 ;  
K9687 K9676 ; K9698 K9676 ; K9847\*R K9790 ; Q9999 Q8800 Q8775 ; Q9999 Q8684 Q8673 Q8606 ;  
N9999 N5856 ; N9999 N6939\*R ; Q9999 Q7818\*R ; N9999 N7192 N7023 Polymer Index [1.7] 017 ;  
B9999 B4080 B3930 B3838 B3747 ; B9999 B5390 B5276 ; B9999 B4295 B4240 ; B9999 B5378 B5276  
Polymer Index [2.1] 017 ; G0033\*R G0022 D01 D02 D51 D53 ; H0000 ; H0011\*R ; S9999 S1285\*R  
; P1150 Polymer Index [2.2] 017 ; G0088\*R G0033 G0022 D01 D02 D13 D51 D53 ; H0000 ;  
H0011\*R ; S9999 S1285\*R ; P1150 Polymer Index [2.3] 017 ; ND01 ; B9999 B4035 B3930 B3838  
B3747 ; B9999 B5323 B5298 B5276 ; B9999 B5389 B5276 ; K9574 K9483 ; K9687 K9676 ; K9698  
K9676 ; K9847\*R K9790 ; Q9999 Q8800 Q8775 ; Q9999 Q8684 Q8673 Q8606 ; N9999 N5856 ; N9999  
N6939\*R ; Q9999 Q7818\*R ; N9999 N7192 N7023 Polymer Index [2.4] 017 ; B9999 B4784 B4773  
B4740 ; K9712 K9676

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-004854

Non-CPI Secondary Accession Numbers: N1995-009196

**Generate Collection**

L6: Entry 23 of 110

File: DWPI

Mar 1, 1995

DERWENT-ACC-NO: 1995-048391

DERWENT-WEEK: 199722

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**TITLE:** Prodn. of multilayered structure useful for packaging pharmaceuticals, food, cosmetics etc. - has adhesive polyolefin resin and saponified ethylene!-vinyl! ester! copolymer co-extrusion coated onto base e.g. polypropylene@

**INVENTOR:** AKIMASA, A; SIGEYUKI, H ; SUSUMU, F

**PATENT-ASSIGNEE:**

ASSIGNEE	CODE
KURARAY CO LTD	KURS

**PRIORITY-DATA:**

1993JP-0068421	March 26, 1993
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**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1099334 A	March 1, 1995	N/A	000	B32B027/28
JP 06328541 A	November 29, 1994	N/A	014	B29C047/04

**APPLICATION-DATA:**

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
CN 1099334A	March 21, 1994	1994CN-0104895	N/A
JP06328541A	March 16, 1994	1994JP-0045839	N/A

**INT-CL (IPC):** B29C 47/04; B29K 23/00; B29L 9/00; B32B 27/28

**ABSTRACTED-PUB-NO:** JP06328541A

**BASIC-ABSTRACT:**

Saponified ethylene - vinyl ester copolymer (A) and a polyolefin resin (B) (e.g., polyethylene type) with adhesive properties are co-extrusion coated onto a base e.g. PE, PP. The copolymer has pyrolytic behaviours expressed by the following characteristics (P value) of 45 seconds to 15 mins.

A melt indexer comprising a nozzle with an inside dia. of 2 mm phi and a length of 1 cm. and a cylinder with an inside dia. of 9.5 mm phi is heated at 300 deg.C. Into the cylinder, 5 g. of a sample resin is placed, and immediately a load of 2.16 g. is applied, so that 1 g. of the resin is discharged through the nozzle. Then, the load is removed. The nozzle is sealed. A load of 480 g. is applied. The time required till the piston is elevated 5 mm., from the start of the loading of 480 g. is defined as P value.

The multi-layer structure is so laminated that the base material has an adhesive resin layer, and the layer (B) is adjacent to the adhesive resin layer side of the base material.

**USE/ADVANTAGE** - Structure is useful as a film for foods, pharmaceuticals, industrial chemicals, cosmetics, etc. Voids are eliminated from the film even if the film is extrusion-moulded at a high speed.

**CHOSEN-DRAWING:** Dwg.0/0

**TITLE-TERMS:** PRODUCE MULTILAYER STRUCTURE USEFUL PACKAGE PHARMACEUTICAL FOOD COSMETIC ADHESIVE POLYOLEFIN RESIN SAPONIFICATION POLYETHYLENE POLYVINYL POLYESTER COPOLYMER CO

EXTRUDE COATING BASE POLYPROPYLENE@

DERWENT-CLASS: A18 A32 A92 B07 P73

CPI-CODES: A04-G01C; A10-E09B1; A11-B05B2; A12-B01; A12-P01; B04-C03B;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

H7 H714 H721 J271 M210 M211 M212 M213 M214 M215  
M216 M220 M221 M222 M223 M224 M225 M226 M231 M262  
M272 M281 M320 M423 M510 M520 M530 M540 M720 M903  
M904 N101 N200 N514 Q120 V743

Specific Compounds

00326M 00326Q 00964M 00964Q

Markush Compounds

199507-13801-M 199507-13801-Q

#### ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 017 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; H0000 ; S9999 S1285\*R ; P1150 ; P1161 Polymer Index [1.2] 017 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; H0000 ; S9999 S1285\*R ; P1150 ; P1343 Polymer Index [1.3] 017 ; ND07 ; Q9999 Q8366\*R ; Q9999 Q8037 Q7987 ; Q9999 Q9165\*R ; Q9999 Q7589\*R ; Q9999 Q7818\*R ; Q9999 Q6973 Q6939 ; B9999 B5141 B4740 ; N9999 N5856 ; K9574 K9483 ; K9701 K9676 ; N9999 N7192 N7023 ; K9712 K9676 ; B9999 B5447 B5414 B5403 B5276 ; K9698 K9676 Polymer Index [2.1] 017 ; P0000 ; S9999 S1285\*R Polymer Index [2.2] 017 ; ND07 ; Q9999 Q8366\*R ; Q9999 Q8037 Q7987 ; Q9999 Q9165\*R ; Q9999 Q7589\*R ; Q9999 Q7818\*R ; Q9999 Q6973 Q6939 ; B9999 B5141 B4740 ; N9999 N5856 ; K9574 K9483 ; K9701 K9676 ; N9999 N7192 N7023 ; B9999 B5301 B5298 B5276 ; B9999 B5447 B5414 B5403 B5276 ; N9999 N7090 N7034 N7023 ; N9999 N7147 N7034 N7023 ; N9999 N5981 N5970 Polymer Index [3.1] 017 ; G0033\*R G0022 D01 D02 D51 D53 ; H0000 ; H0011\*R ; S9999 S1285\*R ; P1150 Polymer Index [3.2] 017 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; H0000 ; H0011\*R ; S9999 S1285\*R ; P1150 ; P1161 Polymer Index [3.3] 017 ; ND07 ; Q9999 Q8366\*R ; Q9999 Q8037 Q7987 ; Q9999 Q9165\*R ; Q9999 Q7589\*R ; Q9999 Q7818\*R ; Q9999 Q6973 Q6939 ; B9999 B5141 B4740 ; N9999 N5856 ; K9574 K9483 ; K9701 K9676 ; N9999 N7192 N7023 ; N9999 N7147 N7034 N7023 ; N9999 N5981 N5970 ; B9999 B5301 B5298 B5276 ; K9698 K9676 Polymer Index [4.1] 017 ; G0566\*R G0022 D01 D12 D10 D51 D53 D58 D63 F41 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; H0022 H0011 ; P1694\*R D01 ; M9999 M2313 ; M9999 M2324 ; S9999 S1285\*R ; P1150 Polymer Index [4.2] 017 ; ND07 ; Q9999 Q8366\*R ; Q9999 Q8037 Q7987 ; Q9999 Q9165\*R ; Q9999 Q7589\*R ; Q9999 Q7818\*R ; Q9999 Q6973 Q6939 ; B9999 B5141 B4740 ; N9999 N5856 ; K9574 K9483 ; K9701 K9676 ; N9999 N7192 N7023 ; N9999 N7147 N7034 N7023 ; N9999 N5981 N5970 ; K9712 K9676 ; K9698 K9676 ; B9999 B3601 B3554

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-021731.

Non-CPI Secondary Accession Numbers: N1995-038374

## End of Result Set

 **Generate Collection**

L2: Entry 1 of 1

File: DWPI

Jun 2, 1977

DERWENT-ACC-NO: 1977-49602Y

DERWENT-WEEK: 197728

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**TITLE:** Continuous film-coating appts. working under reduced press. - which obviates use of film feeder and is esp. for coating copper with polyester

**PATENT-ASSIGNEE:**

ASSIGNEE	CODE
HITACHI CHEM CO LTD	HITB

**PRIORITY-DATA:**

1975JP-0142166	December 1, 1975
----------------	------------------

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 52066581 A</u>	June 2, 1977	N/A	000	N/A
JP 78031670 B	September 4, 1978	N/A	000	N/A

INT-CL (IPC): B29C 27/14; B32B 15/08; B32B 31/10

ABSTRACTED-PUB-NO: JP52066581A

**BASIC-ABSTRACT:**

Appts. comprises exhaust mechanism for reducing the press.; a set of feed rolls for the substrate; a set of press rolls for adhering the film to form a laminated plate; and a set of rolls for removing the laminated plate from the appts. Feed rolls and removing rolls are covered with rubber lining.

Appts. is used for adhering polyester film or photo-sensitige film material to copper-coated laminates or printed circuits.

**TITLE-TERMS:** CONTINUOUS FILM COATING APPARATUS WORK REDUCE PRESS OBTAIN FILM FEED COATING COPPER POLYESTER

**DERWENT-CLASS:** A32 G06 L03 P73

**CPI-CODES:** A11-B09D; A12-E07A; A12-H; A12-L02; G03-B03; G06-D06; G06-E04; G06-F03; L03-H04E1;

Multipunch Codes: 010 032 04- 371 376 477 623 629 723 010 03- 143 352 371 376 430 431 435  
47& 477 623 627 628 658

## End of Result Set

 Generate Collection

L1: Entry 1 of 1

File: DWPI

Jan 21, 1991

DERWENT-ACC-NO: 1991-062691

DERWENT-WEEK: 199109

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**TITLE:** Photosensitive resin laminates for printed wiring base boards - are obtd. by coating releasable film-like articles with photosensitive resin solns., drying and laminating with support films

**PATENT-ASSIGNEE:**

ASSIGNEE	CODE
SEKISUI CHEM IND CO LTD	SEKI

**PRIORITY-DATA:**

1989JP-0146476	June 8, 1989
----------------	--------------

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 03012402 A</u>	January 21, 1991	N/A	000	N/A

**APPLICATION-DATA:**

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
JP03012402A	June 8, 1989	1989JP-0146476	N/A

INT-CL (IPC): C08F 2/48; G03F 7/00; H05K 3/06

ABSTRACTED-PUB-NO: JP03012402A

**BASIC-ABSTRACT:**

Photosensitive resin laminates are produced by coating releasable film-like articles (1) having a smooth surface with photosensitive resin solns. (2), drying the coat face and forming a photosensitive resin layer (3), laminating (3) with support films (4). (1) is e.g. polyethylene terephthalate (PET) film, polyethylene film and mould release paper. (4) is PET film, polypropylene film. (2) are solns. prep'd. by dissolving binders e.g. methyl (meth)acrylate (MMA) (co)polymer, MMA-(meth)acrylic acid copolymer, alpha,beta-unsatd. ethylene gp.-contg. photopolymerisable monomers, photopolymerisation initiators in solvents.

**USE/ADVANTAGE** - Used for the mfr. of printed wiring boards. Since the photosensitive resin layer coated with a releasable film is smooth, it adheres to base boards for printed wiring boards without including air. Then, circuits are formed on the base boards without breaking minute resist lines.

In an example, a photosensitive resin soln. was prep'd. from 50 pts.wt. of methyl methacrylate-n-butyl methacrylate-methacrylic acid copolymer, 15 pts.wt. of trimethylolpropane triacrylate, 15 pts.wt. of tetraethylene glycol diacrylate, 2 pts.wt. of 2,4-diethylthioxa nthone, 2 pts.wt. of ethyl p-dimethylaminobenzoate, 0.05 pts.wt. of Malachite Green, 0.1 pt.wt. of p-methoxyphenol and 200 pts.wt. of MEK. Smooth PET film was coated with the resin soln., dried with a hot draft held at 80 deg.C for 10 mins. The 50 micron thick photosensitive resin layer was adhered to a 20 micron thick PET film. A photosensitive resin laminate was obtd.

CHOSEN-DRAWING: Dwg. 0/0

**TITLE-TERMS:** PHOTOSENSITISER RESIN LAMINATE PRINT WIRE BASE BOARD OBTAIN COATING RELEASE FILM ARTICLE PHOTOSENSITISER RESIN SOLUTION DRY LAMINATE SUPPORT FILM

DERWENT-CLASS: A18 A23 A89 G06 L03 P84 V04

CPI-CODES: A12-E07A; A12-L02B2; G06-A05; G06-D06; G06-E04; G06-F03; L03-H04E1;

EPI-CODES: V04-R01;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0437U; 1173U ; 5388U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0035 0036 0224 0231 0239 3152 0411 0418 0419 0493 0494 0495 3004 3005 3006  
0500 0501 0502 0503 3011 3012 3013 3014 3042 0531 0535 0536 0537 0538 1176 1239 3178 1319  
1462 2016 2020 2300 2301 2303 2315 2318 2427 2429 2437 2507 2513 2654 2661 3269 2719 2726  
2740 2805

Multipunch Codes: 014 034 04- 041 046 047 051 074 075 076 077 081 082 130 133 135 137 143  
144 155 163 166 169 170 171 231 26& 27& 28& 314 316 332 335 341 353 398 431 435 44& 443  
473 477 48- 524 546 575 59& 596 597 602 623 627 628 658 681 688

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1991-026679

Non-CPI Secondary Accession Numbers: N1991-048338

L6: Entry 19 of 110

File: DWPI

Oct 31, 1995

DERWENT-ACC-NO: 1996-006969

DERWENT-WEEK: 199601

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TITLE: Propylene@! polymer used for bi-stretched film for laminating - prepd. by producing specific propylene@! polymer and eliminating olefin! polymerisation catalyst.

## PATENT-ASSIGNEE:

ASSIGNEE	CODE
CHISSO CORP	CHCC

## PRIORITY-DATA:

1994JP-0104808	April 18, 1994
----------------	----------------

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 07286008 A	October 31, 1995	N/A	007	C08F010/06

## APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
JP07286008A	April 18, 1994	1994JP-0104808	N/A

INT-CL (IPC): B29C 55/12; B29K 23/00; B29L 7/00; C08F 4/656; C08F 10/06; C08J 5/18; C08L 23/00

ABSTRACTED-PUB-NO: JP07286008A

## BASIC-ABSTRACT:

A propylene polymer contains (a) below 10 g of solid material other than propylene (max. particle size above 10  $\mu\text{m}$ ), and (b) below 1 g of solid material other than polypropylene (max. particle size above 100  $\mu\text{m}$ ).

Also claimed is a propylene polymer contg. (a) 98.0-100 mole% of propylene units and (b) 2-0 mole% of alpha-olefin (except for ethylene and propylene) unit(s).

Also claimed is prodn. of the propylene polymer comprising (1) producing propylene polymer of above 30000 g (based on 1 g atom of Ti in a polymerisation catalyst) and (2) eliminating the olefin polymerisation catalyst.

Also claimed is prodn. of the propylene polymer in presence of a Ti catalyst supported with a carrier.

USE - The polymer gives bi-stretched film with reduced voids and improved smooth surface. The film is used for laminating materials.

ADVANTAGE - The propylene polymer has reduced larger polymer particles.

CHOSEN-DRAWING: Dwg. 0/0

TITLE-TERMS: POLYPROPYLENE@ POLYMER BI STRETCH FILM LAMINATE PREPARATION PRODUCE SPECIFIC POLYPROPYLENE@ POLYMER ELIMINATE POLYOLEFIN POLYMERISE CATALYST

DERWENT-CLASS: A17

CPI-CODES: A02-A06; A04-G03A; A11-B02B; A12-S06;

E NHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; S9999 S1456\*R ; H0000 ; L9999 L2573 L2506 ; P1150 ; P1343 Polymer Index [1.2] 018 ; H0022 H0011 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; G0033\*R G0022 D01 D02 D51 D53 D58 H0215 ; S9999 S1456\*R ; L9999 L2528 L2506 ; P1150 Polymer Index [1.3] 018 ; ND03 ; B9999 B5163 B5152 B4740 ; Q9999 Q7818\*R ; K9676\*R ; K9483\*R ; N9999 N6666 N6655 ; B9999 B5209 B5185 B4740 ; N9999 N5856 ; B9999 B5389 B5276 ; B9999 B3690\*R Polymer Index [1.4] 018 ; C999 C168 ; C999 C293 Polymer Index [1.5] 018 ; Ti 4B Tr ; C999 C033 C000 ; C999 C293 Polymer Index [2.1] 018 ; H0022 H0011 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 H0215 ; L9999 L2528 L2506 ; S9999 S1285\*R ; S9999 S1514 S1456 ; S9999 S1547 S1536 ; L9999 L2517 L2506 ; P1150 ; P1285 Polymer Index [2.2] 018 ; ND03 ; B9999 B5163 B5152 B4740 ; Q9999 Q7818\*R ; K9676\*R ; K9483\*R ; N9999 N6666 N6655 ; B9999 B5209 B5185 B4740 ; N9999 N5856 ; B9999 B5389 B5276 ; B9999 B3690\*R Polymer Index [2.3] 018 ; B9999 B3601 B3554 ; N9999 N6360 N6337 ; N9999 N5925 N5914 ; N9999 N6597 N6586 Polymer Index [2.4] 018 ; R00659 D01 D11 D10 D50 D68 D86 A1 3A ; C999 C124 C113 ; C999 C293 ; C999 C340 Polymer Index [2.5] 018 ; R01801 D00 D70 Mg 2A Cl 7A ; R01644 G3054 D01 D11 D10 D50 D93 Ti 4B Tr O\* 6A ; R24044 G3123 D01 D11 D10 D19 D18 D31 D50 D63 D76 D93 F41 F90 E00 E19 ; C999 C033 C000 ; C999 C157 ; C999 C248 ; C999 C293 Polymer Index [2.6] 018 ; R01532 D00 D09 H\* ; C999 C215 ; C999 C293 Polymer Index [2.7] 018 ; D01 D11 D10 D50 D90 F87 ; C999 C124 C113 ; C999 C293 ; C999 C340 Polymer Index [2.8] 018 ; R01090 D01 D11 D10 D19 D18 D31 D50 D76 D93 F31 F30 ; A999 A486\*R Polymer Index [2.9] 018 ; R01563 D01 D11 D10 D50 D61 D95 F36 F35 Ca 2A ; A999 A340\*R Polymer Index [2.10] 018 ; R05344 D01 D11 D10 D19 D18 D34 D50 D63 D76 D95 F33 F30 F41 F91 ; A999 A497 A486

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-001938

## End of Result Set

 **Generate Collection**

L1: Entry 1 of 1

File: DWPI

Mar 25, 1994

DERWENT-ACC-NO: 1994-138372

DERWENT-WEEK: 199417

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**TITLE:** Cover film used in dry film resist material for printing plate - consisting of rough surface layer of e.g. LDPE on one side of biaxially oriented polyolefin film consisting of e.g. ethylene!-propylene! copolymer

**PATENT-ASSIGNEE:**

ASSIGNEE	CODE
TORAY IND INC	TORA

**PRIORITY-DATA:**

1992JP-0238173	September 7, 1992
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**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 06083066 A</u>	March 25, 1994	N/A	003	G03F007/11

**APPLICATION-DATA:**

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
JP06083066A	September 7, 1992	1992JP-0238173	N/A

INT-CL (IPC): B29C 55/12; B32B 7/02; B32B 7/06; B32B 27/32; G03F 7/11

ABSTRACTED-PUB-NO: JP06083066A

**BASIC-ABSTRACT:**

The cover film consists of rough surface layer (B layer) on at least one side surface of the biaxially oriented polyolefin film (A layer). The roughness density (PCI) of the rough surface layer (1 microns or more) is 10/mm or more, and the birefringence of the film is 0.002-0.010, and the total haze is 10% or more, and gel and fish eyes are 5/100 mm<sup>2</sup> or less. The biaxially oriented polyolefin film (A layer) consists of at least one resin of ethylene-propylene copolymer, ethylene-propylene-butene copolymer, and propylene-butene copolymer. The rough surface layer (B-layer) consists of a mixt. of LDPE or LLDPE, and ethylene-propylene block copolymer.

**USE/ADVANTAGE** - Provides the cover film with suitable adhesion characteristics and delamination characteristics to the resist.

In an example, a layer of ethylene-propylene-butene copolymer 75 wt.% and LLDPE 25 wt.% mixt. was supplied to a first extruder. B-layer: LLDPE 75 wt.% and ethylene propylene block copolymer mixt. was supplied to a second extruder. And then the co-extruded film of B/A/B was produced, and biaxially oriented.

CHOSEN-DRAWING: Dwg.0/0

**TITLE-TERMS:** COVER FILM DRY FILM RESIST MATERIAL PRINT PLATE CONSIST ROUGH SURFACE LAYER LDPE ONE SIDE BIAXIAL ORIENT POLYOLEFIN FILM CONSIST POLYETHYLENE POLYPROPYLENE COPOLYMER

DERWENT-CLASS: A17 A89 G07 P73 P84

CPI-CODES: A04-G01E; A12-L02F; A12-W07B; A12-W07C; G05-A; G06-A08; G06-D05;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 017 ; G0033\*R G0022 D01 D02 D51 D53 ; H0000 ; H0011\*R ; S9999 S1285\*R ; P1150 Polymer Index [1.2] 017 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; S9999 S1285\*R ; H0022 H0011 ; P1150 ; P1285 Polymer Index [1.3] 017 ; G0055\*R G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D84 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; H0033 H0011 ; S9999 S1285\*R ; P1150 Polymer Index [1.4] 017 ; G0055\*R G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D84 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; H0022 H0011 ; S9999 S1285\*R ; P1150 Polymer Index [1.5] 017 ; ND01 ; K9676\*R ; K9698 K9676 ; K9574 K9483 ; Q9999 Q8708 Q8606 ; Q9999 Q8800 Q8775 ; N9999 N5981 N5970 ; Q9999 Q7818\*R ; B9999 B5301 B5298 B5276 ; B9999 B5323 B5298 B5276 ; B9999 B5163 B5152 B4740 ; N9999 N5925 N5914 ; K9745\*R Polymer Index [2.1] 017 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; P1172 P1161 ; H0000 ; S9999 S1285\*R ; P1150 Polymer Index [2.2] 017 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; P1252 ; H0011\*R ; S9999 S1285\*R ; P1150 Polymer Index [2.3] 017 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; H0044\*R H0011 ; H0022 H0011 ; S9999 S1285\*R ; P1150 ; P1285 Polymer Index [2.4] 017 ; ND01 ; K9676\*R ; K9698 K9676 ; K9574 K9483 ; Q9999 Q8708 Q8606 ; Q9999 Q8800 Q8775 ; N9999 N5981 N5970 ; Q9999 Q7818\*R ; B9999 B5301 B5298 B5276 ; B9999 B5323 B5298 B5276 ; B9999 B5163 B5152 B4740 ; N9999 N5925 N5914 ; K9745\*R Polymer Index [2.5] 017 ; K9712 K9676 ; B9999 B5378 B5276

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0002 0218 0231 0232 0233 0239 0240 0241 0242 0246 0249 0250 0251 0257 0258 0264 0265 2453 2513 2547 2661 2726 2809 2813 3151 3153 3225 3234 3252 3253 3319

Multipunch Codes: 017 034 04- 040 041 046 047 050 051 052 27& 28& 415 435 443 447 450 452 477 494 54& 55& 57& 58& 59& 597 600 63& 658 659 660 688 017 034 036 04- 040 041 046 047 048 050 27& 415 435 443 447 450 452 477 494 54& 55& 57& 575 58& 59& 597 600 602 63& 658 659 660 688

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1994-063881

Non-CPI Secondary Accession Numbers: N1994-108664

too many

L3 ANSWER 13 OF 36 CA COPYRIGHT 2000 ACS  
AN 121:166986 CA  
TI Photoresist cover film for photosensitive platemaking  
IN Tanaka, Shigeru; Asakura, Masayoshi; Fukada, Kunitada  
PA Toray Industries, Japan  
SO Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM G03F007-11  
ICS B29C055-12; B32B007-02; B32B007-06; B32B027-32  
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06083066	A2	19940325	JP 1992-238173	19920907

AB The cover film is prep'd. by laminating a rough surface layer with d. of roughness of .gtoreq.1 .mu.m (PC1) .gtoreq.10 nos./mm on .gtoreq.1 side of a biaxially-drawn polyolefin film and has a double refractive index of 0.002-0.010, a total haze of .gtoreq.10%, and .ltoreq.5 nos./100 mm<sup>2</sup> gels or **fish eyes**. The cover film shows little unevenness in thickness, good flexibility, and improved peelability from **photoresists**. Thus, a compn. contg. ethylene-propylene-butene copolymer and low d. polyethylene (for the polyolefin film) and ethylene-propylene block copolymer (for the layer) were co-extruded, and the laminate was biaxially drawn to give a cover film (PC1 58 nos./100 mm<sup>2</sup>; total haze 45%; gel and **fish eye** 1/100 mm<sup>2</sup>).  
ST polyolefin **photoresist** cover film  
IT Resist  
(photo-, cover film for, polyolefin film laminated with rough surface layer)  
IT 9002-88-4, Polyethylene 9010-79-1, Ethylene-propylene copolymer  
9019-30-1, Butene-propylene copolymer 25895-47-0, Butene-ethylene-propylene copolymer 106565-43-9, Ethylene-propylene block copolymer  
RL: USES (Uses)  
(

100 square millimetre ( $\text{mm}^2$ )

converts to

0.000100000000000 square metre ( $\text{m}^2$ )